

## ABSTRACT OF THE DISCLOSURE

A pulse oximeter for measuring arterial oxygen saturation levels is provided. The pulse oximeter includes an LED signal generator for transmitting one or more light signals to a testing medium and a photodetector signal generator for processing at least a portion of the light signal generated by the LED signal generator into a photocurrent. The pulse oximeter further includes an integrated information transmission component for transmitting information corresponding to the pulse oximeter and which is integrated with the pulse oximeter without requiring additional wiring. A processing system within the pulse oximeter can generate a voltage to the integrated information transmission component to read the information stored in the component without causing the LED signal generator to generate a signal.